

Amendments to the Specification

Please replace the heading before paragraph [0001] with the following amended heading:

DEVICE AND METHOD FOR DETERMINING THE ~~DEFECTIVE VISION~~ AMETROPIA OF AN OPTICAL SYSTEM

Please add the following new heading before paragraph [0002]:

BACKGROUND

Please replace paragraph [0003] with the following amended paragraph:

[0003] ~~The~~ A disadvantage of known devices and methods is that the objective determination of correction values and the subjective determination or correction of the objective measurement values takes place in different steps and sometimes also leads to significantly different results.

Please add the following new heading before paragraph [0004]:

SUMMARY OF THE INVENTION

Please replace paragraph [0005] with the following amended paragraph:

[0005] ~~It is furthermore an~~ A further or alternate object of the invention to provide a criterion by means of which a conclusion can already be drawn as to the degree of agreement with the subjective determination in the objective determination of the correction values.

Please replace paragraph [0006] with the following amended paragraph:

[0006] ~~This object is achieved by~~ The present invention provides a device for determining the ametropia of an optical system, comprising a controllable optical element which is operated by a measurement and control apparatus and the optical properties of which can be modified automatically and/or manually. The optical system can be the human eye itself, but it can also be a human eye which has been supplemented e.g. by means of a contact lens, at least one intraocular lens, spectacles, a combination of these elements or similar. The measurement and control apparatus preferably includes an automatic refractometer or aberrometer and an electronic circuit for controlling the controllable optical element. The controllable optical

element can preferably be an electrically controllable phoropter, or else a lens or mirror system, e.g. an optometer and astigmometer. The controllable optical element and the measurement and control apparatus form a closed-loop control circuit which minimizes the remaining ametropia of the optical system. The optical system comprises a human eye and optionally also an artificial visual aid.

Please replace paragraph [0015] with the following amended paragraph:

[0015] ~~The object named at the outset is also achieved by~~ The present invention also provides a method for determining the ametropia of an optical system with a device comprising a controllable optical element and also a measurement and control apparatus, the controllable optical element being adjusted by the measurement and control apparatus in a first step such that the ametropia of the optical system is compensated. It is ~~particularly~~ advantageous if in a further step the controllable optical element is adjusted manually by the patient to achieve a subjectively optimum compensation of the ametropia.

Please add the following new heading before paragraph [0016]:

BRIEF DESCRIPTION OF THE DRAWINGS

Please add the following new heading before paragraph [0020]:

DETAILED DESCRIPTION

Please amend the heading on top of page 8 with the following amended heading:

~~Claims~~ WHAT IS CLAIMED IS: